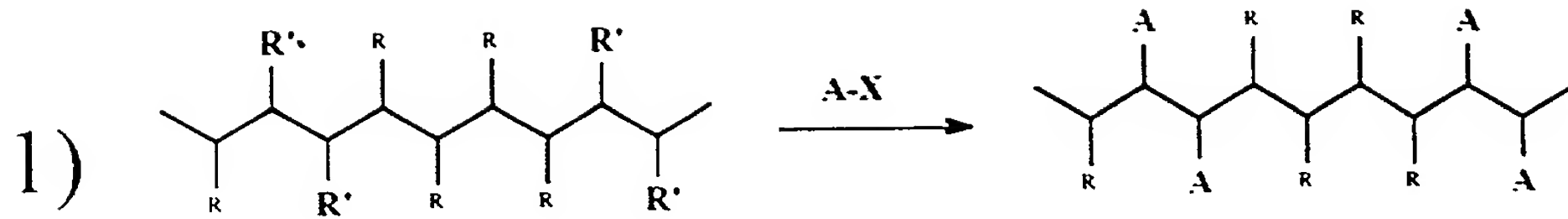
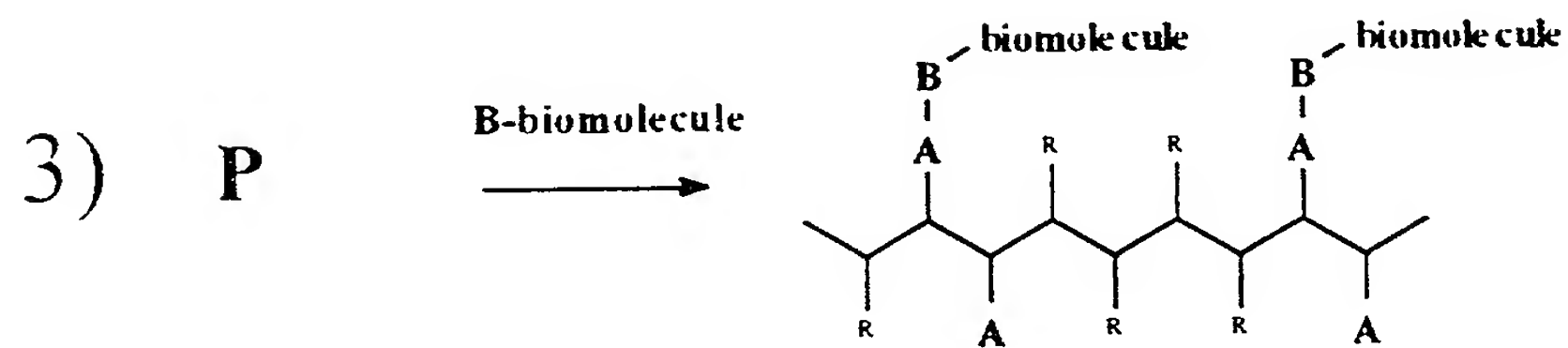
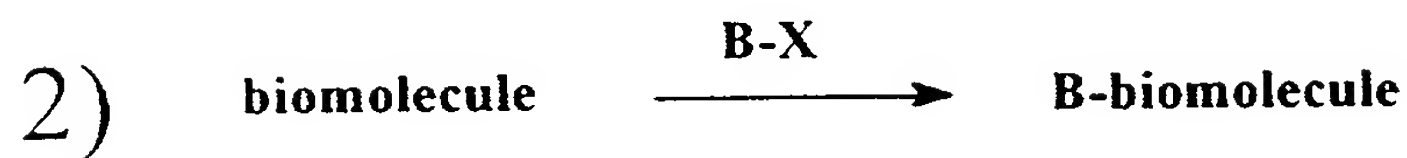


Figure 1



where R' is the same or  
different than R

**P**



biomolecule/polymer conjugate

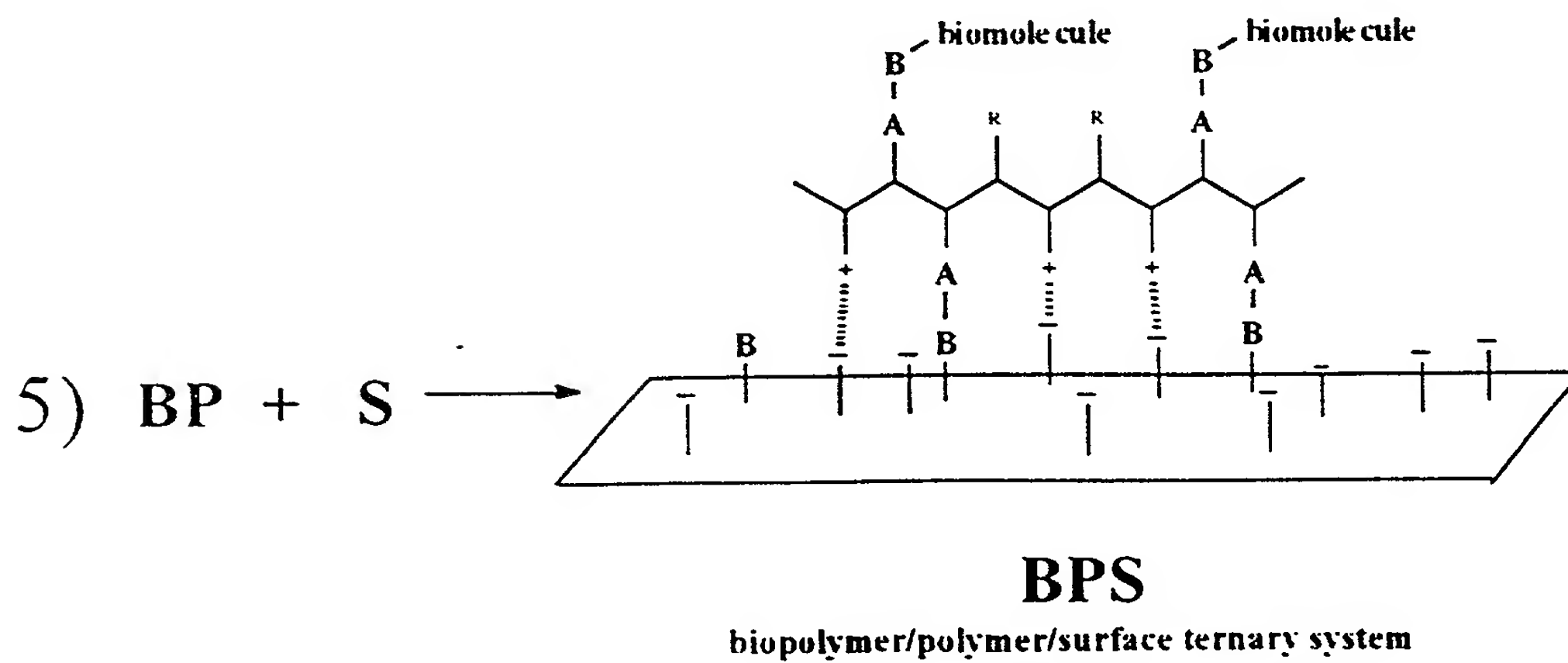
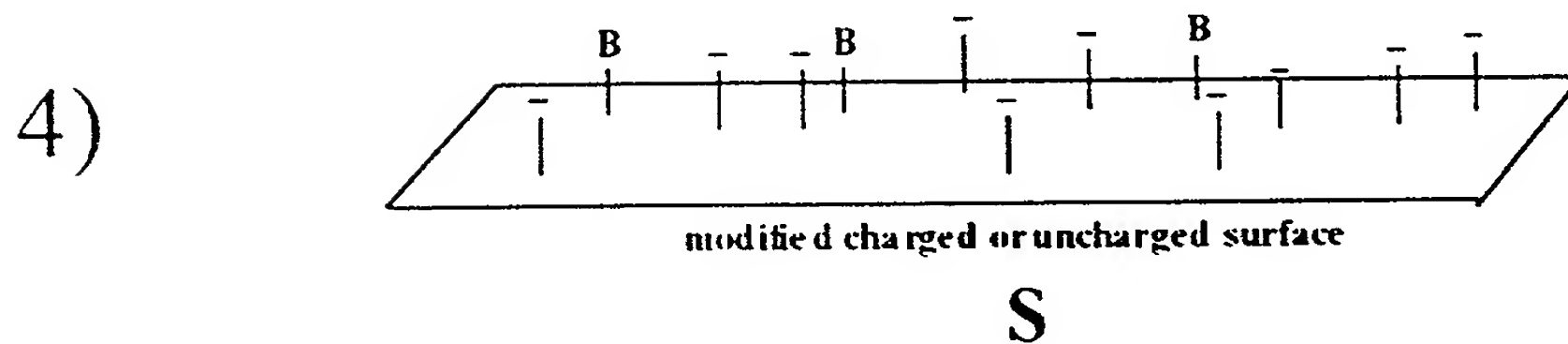


Figure 2

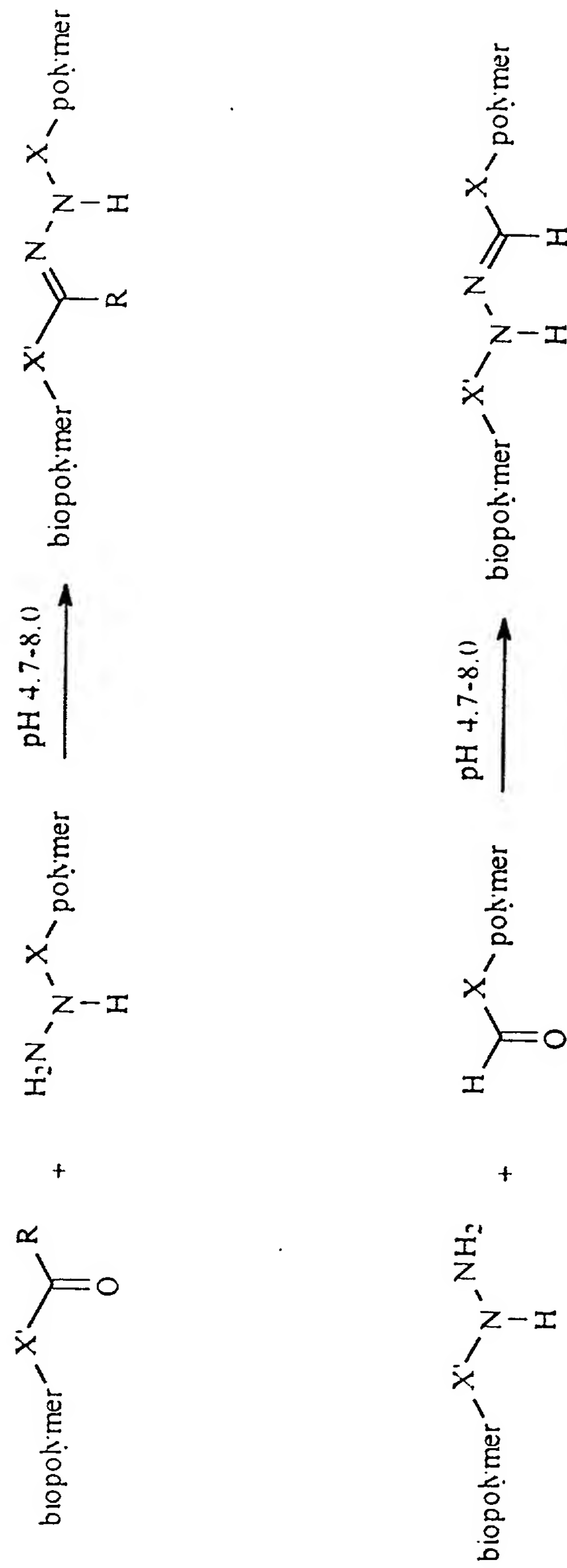
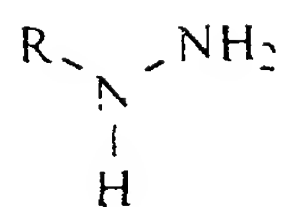
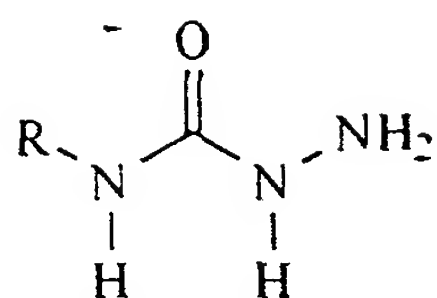


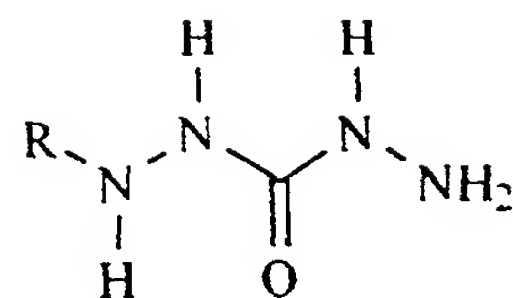
Figure 3



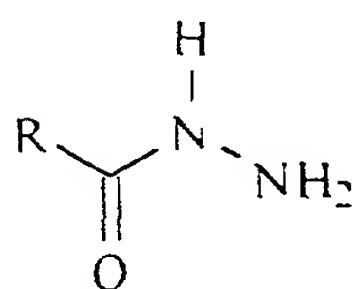
hydrazine



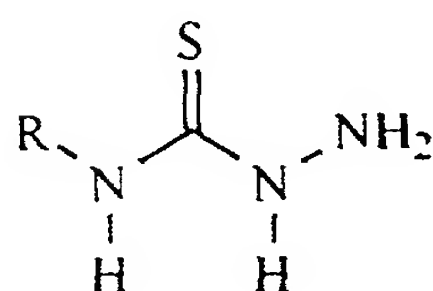
semicarbazide



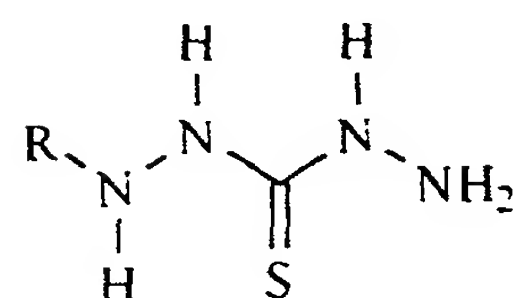
carbazide



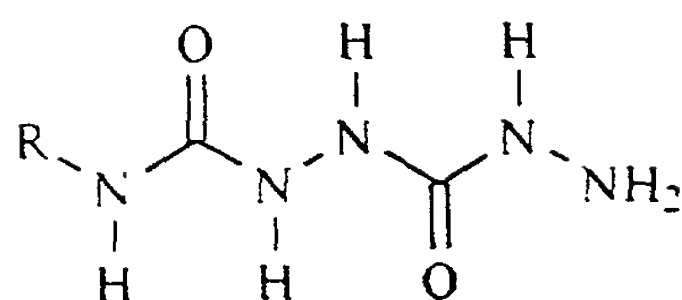
hydrazide



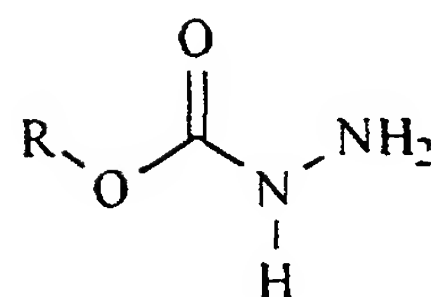
thiosemicarbazide



thiocarbazide



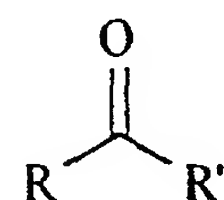
carbonic acid dihydrazine



hydrazine carboxylate



aminooxy



R = alkyl, aromatic or heteroaromatic group

R' = H or straight, branched or cyclic alkyl moiety  
or aromatic or heteroaromatic moiety

carbonyl derivatives

Figure 4

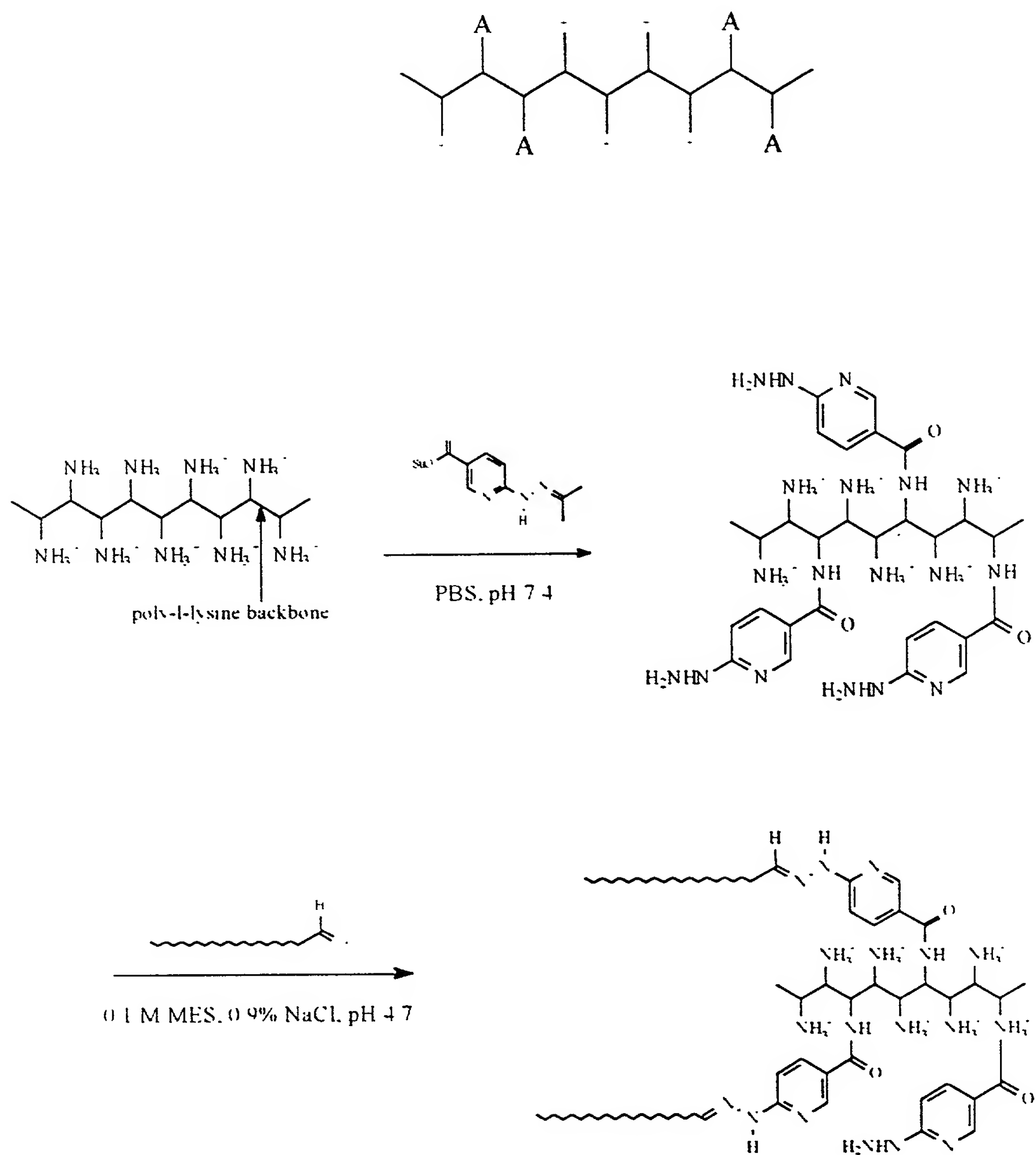


Figure 5

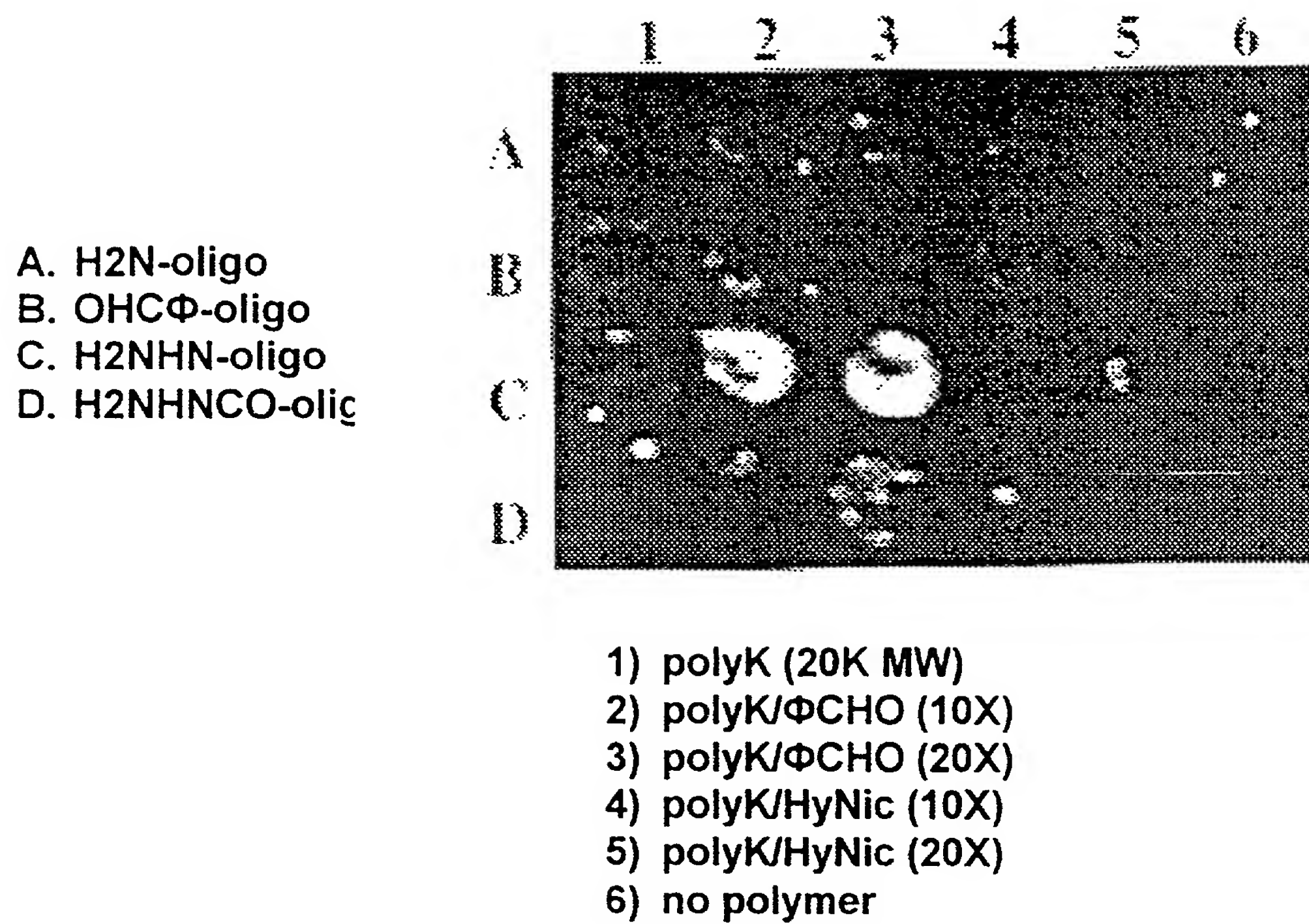
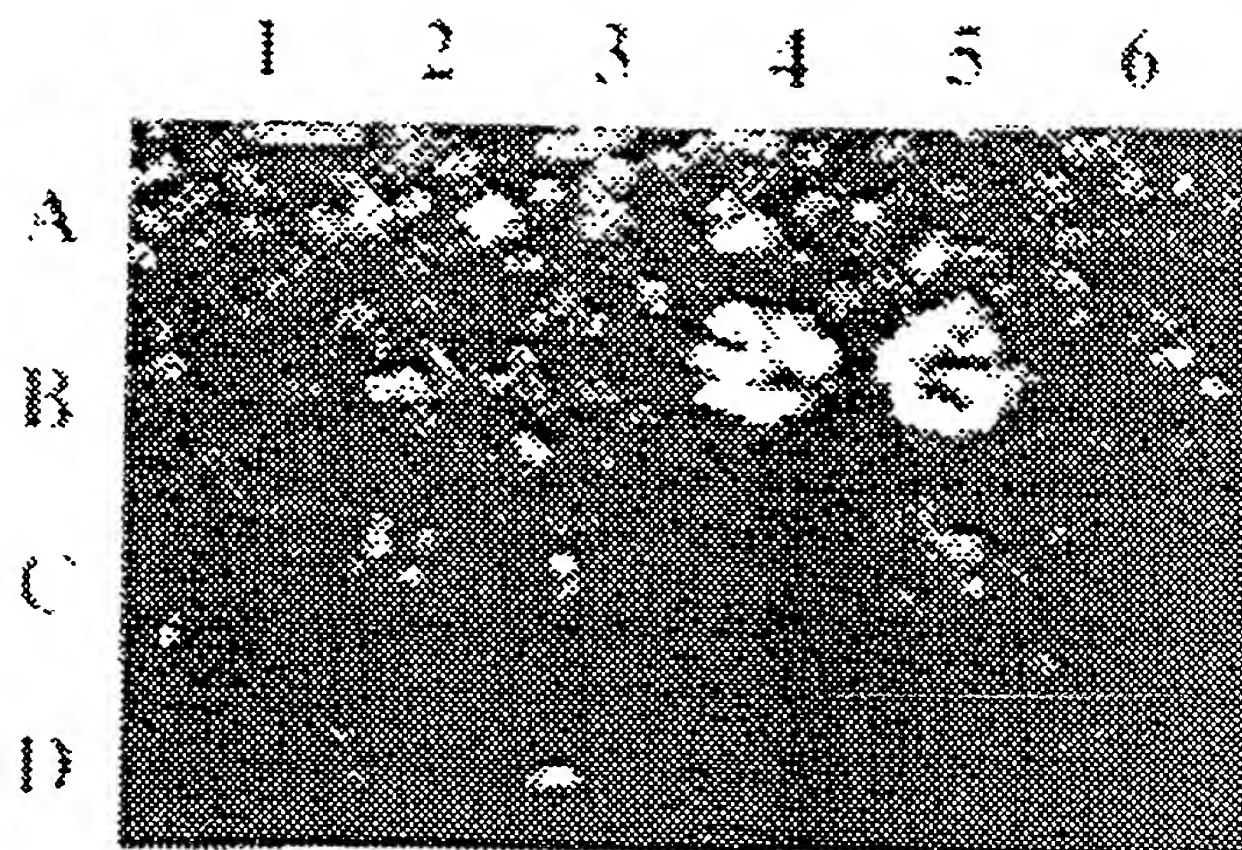


Figure X: Matrix experiment (see Example 2) demonstrating the covalent nature of the immobilization of a 5'-hydrazino oligo//sCHO/poly-l-lysine (polyK) conjugate on a amino modified glass slide following hybridization to its fluorescent complement

Figure 6

A. H<sub>2</sub>N-oligo  
B. OHC-oligo  
C. H<sub>2</sub>NHN-oligo  
D. H<sub>2</sub>NHNCO-oligo



- 1) polyK (20K MW)
- 2) polyK/sCHO (10X)
- 3) polyK/sCHO (20X)
- 4) polyK/HyNic (10X)
- 5) polyK/HyNic (20X)
- 6) no polymer

Figure 7

